

Application No: 10/710,376
Amendment A
Reply to Office Action Dated 05/22/2007

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AUG 20 2007

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IN THE CLAIMS:

The following listing of claims replaces any earlier listing:

1. (currently amended) A CAD system utilizing a network and comprises:
a server computer that is connected to a network; and
at least one client computer that performs data transmission with said server computer via
said network; and
said server computer sends basic data, which are combinations of plurality of variable programs for drawing different graphics and numerical data that are substituted into the variables of said variable programs, for CAD graphic data from said server computer to said client computer according to a request from said client computer;
wherein said server computer comprises:
a storage means that stores basic data for said graphic data; and
a program data transmitting section that reads said basic data for graphic data from said storage means according to a request from said client computer, and sends that data to said client computer;
said client computer comprises:
a program data receiving section that receives said basic data for graphic data;
a computing section that creates parametric graphic data based on said basic data for graphic data; and
a CAD graphic data producing section that creates display data for the graphic display unit in said client computer based on the parametric graphic data created by said computing section;
~~said basic data for graphic data comprises a plurality of variable programs for drawing different graphics and real number data that is substituted into the variables of said variable programs;~~

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said storage means of said server computer comprises a variable program storage section that stores said plurality of variable programs, and a ~~real-number numerical~~ data storage section that stores a plurality of kinds of said ~~real-number numerical~~ data[[;]]

~~said program data transmitting section reads a specified variable program from said variable program storage section, and reads specified real-number data from said real-number data storage section according to a request from said client computer, then sends that the specified variable and numerical data to said client computer; and~~

~~said computing section of said client computer substitutes said numerical values of specified real-number numerical data into the variables of said specified variable program, then executes that program and creates parametric graphic data.~~

2. (currently amended) A CAD system utilizing a network and comprises:

a server computer that is connected to a network; and

at least one client computer that performs data transmission with said server computer via said network; and

~~said server computer sends basic data for CAD graphic data from said server computer to said client computer according to a request from said client computer;~~

wherein said server computer comprises:

a storage means that stores basic data for ~~said parametric~~ graphic data; and

a program data transmitting section that reads ~~said basic data for parametric~~ graphic data from said storage means according to a request from said client computer, and sends that data to said client computer;

said client computer comprises:

a program data receiving section that receives ~~said basic data for parametric~~ graphic data;

a computing section that creates graphic data based on ~~said basic data for parametric~~ graphic data; and

a CAD graphic data producing section that creates display data for the graphic display unit in said client computer based on the ~~parametric~~ graphic data created by said computing section;

~~said basic data for parametric graphic data comprises a plurality of variable programs for~~

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drawing different graphics and real-number numerical data that is substituted into the variables of said variable programs;

said storage means of said server computer comprises a variable program storage section that stores said plurality of variable programs, and a real-number numerical data storage section that stores a plurality of kinds of said real-number numerical data;

said program data transmitting section reads a specified variable program from said variable program storage section, and reads specified real-number numerical data from said real-number numerical data storage section according to a request from said client computer, then sends that data to said client computer;

said variable program is created using an interpreter-type programming language; and said computing section of said client computer comprises an interpreting function for interpreting said interpreter-type programming language, and substitutes said specified real-number numerical data into the variables of said specified variable program made from the interpreter-type programming language, then executes that variable program while interpreting it by the interpreting function for the interpreting interpreter-type programming language, and creates parametric graphic data.

3. (currently amended) The CAD system utilizing a network according to claims 1 or 2 wherein said client computer further comprises:

a graphic name list display control section for displaying a list of received graphic names of the basic data for parametric graphic data provided from said server computer on the display unit; and

a selected graphic name transmitting section that sends the names of graphics selected from said list of graphic names to said server computer;

said program data transmitting section in said server computer reads said specified variable program and specified real-number numerical data based on the graphic names that were sent from said selected graphic name transmitting section.

4. (currently amended) The CAD system utilizing a network according to claims 1 or 2 wherein said server computer further comprises:

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a parts data list storage section that groups and stores part code numbers for each part and said ~~real-number~~ numerical data corresponding to the code numbers;

said program data transmitting section transmits the part data list containing the code numbers and the ~~real-number~~ numerical data to said client computer according to a request of said client computer;

said client computer further comprises:

a code number list display control section that creates a parts code number list from said sent parts data list transmitted, and displays the list on said graphics display unit; and

said computing section substitutes ~~real-number~~ numerical data for the parts that correspond to the names of the part code numbers selected from said displayed parts code number list into the variables of the variable program that corresponds to the names of said graphics and creates graphic data.

5. (currently amended) The CAD system utilizing according to claim 4 wherein when part or all of the ~~real-number~~ numerical data selected by the user in said client computer corresponds to the part code numbers selected from said part code number list in said client computer ~~is input data that was input by the user~~, said computing section of said client computer substitutes said ~~real-number~~ numerical data that was read from said parts data list storage section and said input data into the variables in said corresponding variable program and creates parametric graphic data.

6. (currently amended) The CAD system utilizing a network according to claims 1 or 2 wherein said client computer further comprises:

a data format name selection function that is capable of selecting a data format name for the CAD software; and

said CAD graphic data producing section converts the format of the parametric graphic data created by said computing section, creates CAD graphic data ~~having said that suits the~~ selected data format, assigns a file name and stores the data in the memory unit.

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7. (currently amended) The CAD system utilizing a network according to claims 1 or 2 wherein said client computer further comprises:

an interface name selection function that is capable of selecting a name for the data-exchange interface provided by the CAD software; and

said CAD graphic data producing section converts the format of the parametric graphic data created by said computing section to create CAD graphic data, and registers said CAD graphic data directly in said CAD software by way of said data-exchange interface.

8. (currently amended) The CAD system utilizing network according to claims 1 or 2, further comprising a parts database management program for managing parts data in said program data transmitting section of said server computer.